

## **Attachment A**

### **MTBE Biodegradation Workshop Agenda**

# MTBE Biodegradation Workshop

Marriott Kingsgate Conference Center  
Cincinnati, Ohio  
February 1–3, 2000

## Agenda

Meeting Goals

*Ben Blaney, US EPA*

### OVERVIEW OF ISSUES

MTBE and Underground Storage Tanks

*Sammy Ng, US EPA*

EPA's ORD Current and Future Research on MTBE Bioremediation

*Fran Kremer and Stephen Schmelling, U.S. EPA*

MTBE Biodegradation: API and Industry Perspectives

*Bruce Bauman API*

The Distribution and Environmental Fate of MTBE in the Hydrosphere: The Approach of the U.S. Geological Survey

*Francis Chapelle, USGS*

EPA Region 9 Perspective on MTBE Response

*Steve Linder, US EPA*

### PRESENTATIONS

#### In Situ Treatment

Transport and Fate of a BTEX and MTBE Plume: What do we know?

*Bob Borden, NCSU*

Bioaugmentation of MTBE-Contaminated Groundwater with Bacterial Strain PM1

*Doug Mackay, University of Waterloo*

Microbial Cometabolism of MTBE

*Michael Hyman, North Carolina State University*

Anaerobic Biodegradation of MTBE and TBA  
*Kevin Finneran, University of Massachusetts-Amherst*

In Situ Control of MTBE Plumes with Inoculated Biobarriers  
*Joseph Salanitro, Equilon Enterprises*

In Situ Treatment of MTBE by Biostimulation of Native Aerobic Microorganisms  
*Doug Mackay*

## **Monitored Natural Attenuation**

Evaluating Attenuation of MTBE: What we have Learned from LUFT Data and Laboratory Studies

*Anne Happel, Lawrence Livermore Laboratory*

The Fate of MTBE in the Borden  
*AquiferBarbara Butler, University of Waterloo*

MTBE Attenuation Processes: Ambient and Enhanced Redox Conditions, Stream-Bed-Ground-Water Interactions, and Plant Uptake  
*James Landmeyer, USGS*

Field Evidence for MTBE Degradation in the Unsaturated Zone at Low Concentrations  
*Arthur Baehr, USGS*

Natural Attenuation of MTBE in the Subsurface Under Methanogenic Conditions  
*John Wilson, US EPA*

Comparative Evaluation of MTBE Sites on Long Island  
*Jim Weaver, US EPA*

## **Ex Situ Treatment**

Drinking Water Issues  
*Thomas Speth, US EPA*

MTBE Biodegradation: Kinetics, Reactor Engineering, and the Potential for Ex-Situ Treatment of Groundwater  
*Robert Cowan, Rutgers University*

Mineralization of MTBE in Continuous Flow High Biomass Bioreactors  
*Albert Venosa, US EPA*

Kinetics of MTBE Biodegradation  
*Makram Suidan, University of Cincinnati*

Research in Bioremediation of MTBE at UC Riverside: Lessons from Laboratory Experiments  
*Marc Deshusses, University of California-Riverside*

Experience with Laboratory and Field Scale *Ex-Situ* Biodegradation of MTBE  
*Daniel Chang, University of California-Riverside*

## POSTERS

The Effects of Ethanol on BTEX Natural Attenuation: Pure Culture and Aquifer Column Experiments

*Pedro Alvarez, US EPA*

The Borden Field Experiment - Where Has the MTBE Gone? Demonstrating In Situ Remediation - the Borden Aquifer Research Facility

*Jim Barker, University of Waterloo*

Process Level Investigations of the In Situ Degradation of MTBE

*Clinton Church, Oregon Graduate Institute*

Research in Bioremediation of MTBE at UC Riverside: Lessons from Laboratory Experiments

*Marc Deshusses*

Biodegradation of MTBE in Soil Monitored by IRMS

*John Haines, US EPA*

Natural Attenuation of MTBE at a Site where 24 Bedrock Wells were Contaminated by a 10-Gallon Gasoline Spill

*Bruce Hunter, Maine Department of Environmental Protection*

Anaerobic Biodegradation of MTBE and Alternative Gasoline Oxygenates

*Kevin Kropp, University of Oklahoma*

Using Iso-Pentane to Stimulate MTBE Biodegradation In Groundwater Treatment Systems

*William Stringfellow, Lawrence Berkely National Laboratory*

Structure and Behavior of the MTBE Plume at Port Hueneme, CA

*John Wilson*